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March 31, 2005

Commissioner for Patents
Alexandria, VA 22313-1450

**Re: U.S. Patent Application Serial No. 10/765,202
For: SUB-SYMBOL PARALLEL INTERFERENCE CANCELLATION
Our Reference No: 58010-00602**

Dear Sir:

Transmitted herewith for filing in the U.S. Patent and Trademark Office in connection with the above-referenced application are the following documents:

- (1) Information Disclosure Statement (2 pages);
- (2) PTO/SB/08A (1 page); and
- (3) Nine (9) non-U.S. cited references.

This Information Disclosure Statement is being submitted before the mailing of a first Office Action on the merits. No certification or fee is required.

Please date-stamp the enclosed copy of this letter, acknowledging receipt of the above-identified documents, and return it to us.

Sincerely yours,

CHRISTOPHER M. TOBIN, Reg. No. 40,290

Enclosures

CMT/la



**IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE**

APPLICANTS: James P. Dunyak et al.

APPLICATION NO.: 10/765,202

FILING DATE: January 28, 2004

TITLE: Sub-Symbol Parallel Interference Cancellation

EXAMINER: Unknown

GROUP ART UNIT: 2631

ATTY. DKT. NO.: 58010-00602

Commissioner for Patents
Alexandria, VA 22313-1450

Information Disclosure Statement

Dear Sir:

In accordance with the provisions of 37 C.F.R. §§ 1.56, and 1.97-1.98, the attention of the U.S. Patent and Trademark Office is hereby directed to the references listed on the attached form PTO/SB/08A. Enclosed is a copy of each listed non-U.S. reference that may be material to the examination of this application, and for which there may be a duty to disclose.

The filing of this Information Disclosure Statement shall not be construed as a representation regarding the completeness of the list of references, or that inclusion of a reference in this list is an admission that it is prior art or is pertinent to this application, or that a search has been made, or as an admission that the information listed is, or may be construed to be, material to patentability, or that no other material information exists, and shall not be construed as an admission against interest in any manner.

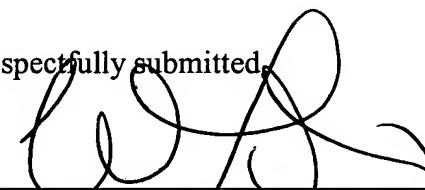
It is respectfully requested that the references be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being submitted before the mailing of a first Office Action on the merits. Applicants submit that no certification or fee is required for consideration of this Information Disclosure Statement.

If any additional fees are required, the Commissioner is hereby invited to contact Applicants' undersigned representative to arrange payment.

Date: March 31, 2005

Respectfully submitted,


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LIST OF REFERENCES CITED BY APPLICANT <i>O P E J C</i> MAR 31 2005 PATENT & TRADEMARK OFFICE	ATTY DOCKET NO.	APPLICATION NO
	58010-00602	10/765,202
	APPLICANT	
	James P. Dunyak	
FILING DATE	GROUP	
January 28, 2004	2631	

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A01	5,099,493	03-24-1992	Zeger et al.	375	1	
	A02						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	B01						
	B02						

OTHER REFERENCES (*Including Author, Title, Date, Pertinent Pages, Etc.*)

C01	Abrams, B.S. et al., "Efficiently Structured CDMA Receiver With Near-Far Immunity", <u>IEEE Transactions on Vehicular Technology</u> , February 1995, 44(1), pp. 1-13.
C02	Dunyak, J. et al., "A Chip-Level Interference Cancellation Technique for CDMA", <u>Submitted to IEEE WCNC</u> , 2003.
C03	Dunyak, J. et al., "Multiuser Detection Using Interference Cancellation at Each Chip", <u>Proceedings of IEEE ISWC</u> , September 23-24, 2002.
C04	Dunyak, J., "Multiuser Detection of Pulse Amplitude Modulation CDMA Using a Decoupled Kalman Filter Technique", <u>Submitted to IEEE VTC</u> , September 24-28, 2002.
C05	Dunyak, J. et al., "A Decoupled Kalman Filter Technique for Multiuser Detection of Pulse Amplitude Modulation CDMA", <u>Proceedings of the WOC</u> , July 17-19, 2002.
C06	Dunyak, J. et al., "A Kalman-PIC Multistage Technique to Reduce Multiaccess Interference", <u>Proceedings of the IEEE ISWC</u> , September 23-24, 2002.
C07	Flanagan, B. et al., "Performance of a Joint Kalman Demodulator for Multiuser Detection", <u>Proceedings of IEEE VTC</u> , September 24-28, 2002.
C08	Lim, T.J. et al., "An Asynchronous Multiuser CDMA Detector Based on the Kalman Filter", <u>IEEE Journal on Selected Areas in Communications</u> , December 1998, 16(9), pp. 1711-1722.
C09	Suprin, C. et al., "A Kalman Filter Approach to Joint Channel Estimation and Multiuser Detection", <u>Submitted to WOC</u> , July 17-19, 2002.
C10	Verdu, S., "Multiuser Detection", Cambridge University Press, 1998, pp. 1-393.
C11	
C12	
C13	
C14	
C15	

EXAMINER	DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.